



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

ORGANIZED 1878

INCORPORATED 1891

MAY, 1901

TRANSACTIONS  
OF THE AMERICAN  
MICROSCOPICAL  
SOCIETY

EDITED BY THE SECRETARY

TWENTY-THIRD ANNUAL MEETING

HELD IN

NEW YORK CITY,

JUNE 28, 29, AND 30, 1900

VOLUME XXII

---

---

The twenty-fourth annual meeting will be held at Denver, Colorado, August 29, 30, and 31, 1901. The Denver Microscopical Society, which acts as host, extends a most cordial invitation to every member of our organization and assures all who come of the best that their beautiful city and state afford. We are already promised very low railroad rates, and a circular giving full details of the arrangements for the meeting will be sent out about the middle of July. Members have rarely had an opportunity of combining with the annual meeting an excursion to a region which offers so much to the lover of nature and it is hoped that the attendance may be large.

Titles of papers for the meeting should be sent in at once, that a preliminary program may be sent out with the announcements of a general character.

---

---

TRANSACTIONS  
OF THE  
American Microscopical  
Society

ORGANIZED 1878

INCORPORATED 1891

---

EDITED BY THE SECRETARY

---

Twenty-Third Annual Meeting

HELD IN

NEW YORK CITY, JUNE 28, 29, AND 30, 1900

---

VOLUME XXII

---

LINCOLN, NEB.:  
STATE JOURNAL COMPANY, PRINTERS  
1901

## OFFICERS FOR 1900-1901

---

*President:* C. H. EIGENMANN.....Bloomington, Ind.  
*Vice Presidents:* CHARLES M. VORCE.....Cleveland, Ohio  
                             EDWARD PENNOCK.....Philadelphia, Pa.  
*Secretary:* HENRY B. WARD.....Lincoln, Neb.  
*Treasurer:* J. C. SMITH.....New Orleans, La.  
*Custodian:* MAGNUS PFLAUM.....Pittsburg, Pa.

---

### ELECTIVE MEMBERS OF THE EXECUTIVE COMMITTEE.

JOHN ASPINWALL.....New York City  
 CHARLES A. KOFOID.....Berkeley, Cal.  
 A. G. FIELD.....Des Moines, Iowa

---

### EX-OFFICIO MEMBERS OF EXECUTIVE COMMITTEE

Past Presidents still retaining membership in the Society

R. H. WARD, M. D., F. R. M. S., of Troy, N. Y.,  
                             at Indianapolis, Ind., 1878, and at Buffalo, N. Y., 1879.  
 H. L. SMITH, LL. D., of Geneva, N. Y.,  
                             at Detroit, Mich., 1880, and at Cleveland, O., 1885.  
 J. D. HYATT, of New York City,  
   at Columbus, O., 1881.  
 ALBERT MCCALLA, Ph. D., of Fairfield, Ia.,  
   at Chicago, Ill., 1883.  
 T. J. BURRILL, Ph. D., of Champaign, Ill.,  
   at Chautauqua, N. Y., 1886.  
 GEO. E. FELL, M. D., F. R. M. S., of Buffalo, N. Y.,  
   at Detroit, Mich., 1890.  
 FRANK L. JAMES, Ph. D., M. D., of St. Louis, Mo.,  
   at Washington, D. C., 1891.  
 MARSHALL D. EWELL, M. D., of Chicago, Ill.,  
   at Rochester, N. Y., 1892.  
 SIMON HENRY GAGE, B. S., of Ithaca, N. Y.,  
   at Ithaca, N. Y., 1895.  
 A. CLIFFORD MERCER, M. D., F. R. M. S., of Syracuse, N. Y.,  
   at Pittsburg, Pa., 1896.  
 E. W. CLAYPOLE, B. A., D. Sc. (Lond.), F. G. S., of Pasadena, Cal.,  
   at Toledo, O., 1897.  
 W. C. KRAUSS, M. D., F. R. M. S., of Buffalo, N. Y.,  
   at Columbus, O., 1899.  
 A. M. BLEILE, M. D., of Columbus, O.,  
   at New York City, 1900.

The Society does not hold itself responsible for the opinions expressed by members in its published Proceedings unless indorsed by a special vote.

## TABLE OF CONTENTS

### FOR VOLUME XXII

The Annual Address of the President: The Detection and Recognition of Blood, by A. M. Bleile.....	1
Some Advantages of Field-Work on Surface Water Supplies, by Horatio N. Parker.....	13
The Work of the Mt. Prospect Laboratory of the Brooklyn Water Works, by George C. Whipple, with Plates I to IV.....	25
Methods of Producing Enlargements and Lantern Slides of Microscopic Objects for Class Demonstrations, by John Aspinwall..	41
On the Distribution of Growths in Surface Water Supplies and on the Method of Collecting Samples for Examination, by Frederick S. Hollis, with Plates V to VIII.....	49
Limnological Investigations at Flathead Lake, Montana, and Vicinity, July, 1899, by Morton J. Elrod, with Plates IX to XVII	63
An Addition to the Parasites of the Human Ear, by Roscoe Pound, with Plate XVIII.....	81
The Modern Conception of the Structure and Classification of Desmids, with a Revision of the Tribes and a Rearrangement of the North American Genera, by Charles E. Bessey, with Plate XIX .....	89
Photo-spectography of Colored Fluids, by Moses C. White, with Plate XX .....	99
Description of a New Genus of North American Water Mites, with Observations on the Classification of the Group, by Robert H. Wolcott, with Plate XXI.....	105
The Cladocera of Nebraska, by Charles Fordyce, with Plates XXII to XXV .....	119
Notes on the Parasites of the Lake Fish. III. On the Structure of the Copulatory Organs in <i>Microphallus</i> nov. gen., by Henry B. Ward, with Plate XXVI.....	175
Description of a New Cave Salamander, <i>Spelerpes stejnegeri</i> , from the Caves of Southwestern Missouri, by Carl H. Eigenmann, with Plates XXVII and XXVIII.....	189
Report of the Limnological Commission.....	193
Necrology: Jacob Dolson Cox, with Plate XXIX.....	197
Moses Clark White, with Plate XXX.....	202
Minutes of the Annual Meeting.....	205
Treasurer's Report .....	209
Custodian's Report, Spencer-Tolles Fund.....	210
Constitution .....	211
By-Laws .....	212
List of Members.....	215
List of Subscribers.....	222
Biennial Index, for Volumes XXI and XXII.....	223
Advertisements .....	I